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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Yutaka MURAKAMI et al.

Group Art Unit : Not Yet Assigned

Appl. No. : 10/827,445

Examiner : Not Yet Assigned

Filed : April 20, 2004

For : TRANSMISSION APPARATUS, RECEPTION APPARATUS AND
DIGITAL RADIO COMMUNICATION METHOD

INFORMATION DISCLOSURE STATEMENT

U.S. Patent and Trademark Office
220 20th Street S.
Customer Window, Mail Stop _____
Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Sir :

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98, Applicants hereby call to the Examiner's attention the following documents which were cited during the prosecution of parent U.S. Patent Application No. 09/627,070:

U.S. Patent Application No. 09/000,947 to MIYA, which issued as U.S. Patent No. 6,175,558 on January 16, 2001;

U.S. Patent No. 4,899,367 to SAMPEI, which issued on February 6, 1990;

U.S. Patent No. 5,901,185 to HASSAN, which issued on May 4, 1999;

U.S. Patent No. 6,490,270 to KRISHNAMOORTHY et al., which issued on December 3, 2002;

U.S. Patent No. 5,596,608 to SASSA et al., which issued on January 21, 1997;

Japanese Laid-Open Patent Publication No. HEI 1-196924, which was published on August 8, 1989, together with an English language Abstract of the same (Applicants

note that this document is mentioned on page 1 of the specification of the present application);

OTSUKI et al., "Performance Analysis of Adaptive Modulation Systems Using Square-QAM", Technical Report of IEICE, RCS94-96, 1994-09, pages 43-48, together with an English language Abstract thereof; and

MURAKAMI et al., "A Method of Frame Structure in QAM Channels", Matsushita Research Institute Tokyo, Inc., together with an English language Abstract thereof.

Applicants also bring to the Examiner's attention the following co-pending and commonly assigned patent application:

U.S. Patent Application No. 09/147,831 to YAMADA, which was filed on March 16, 1999.

Applicants respectfully request that the Examiner consider the above materials, have been listed on a PTO-1449 Form attached hereto, and cite the same. Copies of the above-noted documents are not enclosed herewith as they were already cited in the parent application, and thus no copies are required under 37 C.F.R. § 1.98 (d)(i). However, if the Examiner requires copies of any of these documents, the Examiner is requested to contact the undersigned, and copies will be provided.

Further, Applicants call the following documents, which were cited in a Decision of Rejection for corresponding Japanese Patent Application No. 2000-227453, issued by the Japanese Patent Office on May 6, 2004, to the Examiner's attention:

Japanese Laid-Open Patent Publication No. H7-250116, together with an English language Abstract thereof;

Japanese Laid-Open Patent Publication No. H1-196924 (mentioned above);

Japanese Laid-Open Patent Publication No. H10-247955, together with an English language Abstract thereof;

Japanese Laid-Open Patent Publication No. H01-065645, together with an English language Abstract thereof;

Japanese Laid-Open Patent Publication No. H11-191794, together with an English language Abstract thereof; and

MURAKAMI, et al., A Study of Inserting QPSK Symbols into 16 QAM Streams," Lecture Papers of The Institute of Electronics, Information and Communication Engineers (1998), Japan, The Institute of Electronics, Information and Communication Engineers, March 1998, Communication 1, B-5-69, p.433, together with an English language Abstract thereof.

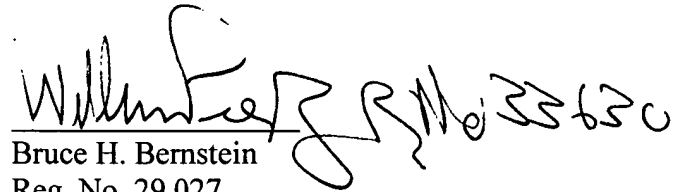
Applicants respectfully request that the Examiner consider the above materials and cite the patent documents and enclosed Abstracts. Copies of the above-noted newly cited documents are attached, together with a copy of the Decision of Rejection, and have been listed on the PTO-1449 Form attached hereto.

Accordingly, the Examiner is requested to initial the appropriate spaces on the attached PTO-1449 Form and to return a copy of the Form to the Applicants with the next official communication in the present application to confirm consideration of these documents.

Applicants note that an Office Action on the merits has not issued in the present application, and thus no fee is believed necessary to ensure consideration of the submitted material.

Should the Examiner have any questions, the Examiner is invited to contact the undersigned at the below-listed telephone number.

Respectfully Submitted,
Yutaka MURAKAMI et al.


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August 6, 2004
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FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P25112Application No.
10/827,445INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

Applicant
Y. MURAKAMI et al.Filing Date
April 20, 2004Group
Not Yet Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4 8 9 9 3 6 7	02/06/90	SAMPEI			
	5 9 0 1 1 8 5	05/04/99	HASSAN			
	6 4 9 0 2 7 0	12/03/02	KRISHNAMOORTHY et al			
	5 5 9 6 6 0 8	01/21/97	SASSA et al			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
1	- 1 9 6 9 2 4	08/08/89	JAPAN			
7	- 2 5 0 1 1 6	09/26/95	JAPAN			
10	- 2 4 7 9 5 5	09/14/98	JAPAN			
10	- 0 6 5 6 4 5	03/06/98	JAPAN			
11	- 1 9 1 7 9 4	07/13/99	JAPAN			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1	English Language Abstract of JP 1-196924, date August 08, 1989.
2	OTSUKI et al., "Performance Analysis of Adaptive Modulation Systems Using Square-QAM", Technical Report of IEICE, RCS94-96, 1994-09, pages 43-48, together with an English language Abstract thereof.
3	MURAKAMI et al., "A Method of Frame Structure in QAM Channels", Matsushita Research Institute Tokyo, Inc., together with an English language Abstract thereof.
4	English Language Abstract of JP 7-250116, date September 26, 1995.
5	English Language Abstract of JP 10-247955, date September 14, 1998.
6	English Language Abstract of JP 10-065645., date March 06, 1998..
7	English Language Abstract of JP 11-191794, date July 13, 1999..
8	MURAKAMI, et al., A Study of Inserting QPSK Symbols into 16 QAM Streams," Lecture Papers of The Institute of Electronics, Information and Communication Engineers (1998), Japan, The Institute of Electronics, Information and Communication Engineers, March 1998, Communication 1, B-5-69, p.433, together with an English language Abstract thereof.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.